LED NEON ROPE

User Manual

FU-BLF-NEON-XXXXAC

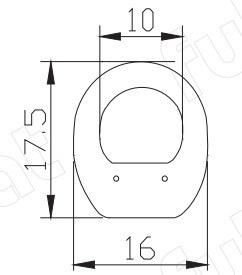
The LED neon tube was made by PVC plastic and it used brightness Top LED. Utilizes the unique patented technology to produce, to pass through pushes many times detains the formation to have the similar glass tube neon light to shine continuously the effect new plastic rope lamp. It unified the LED advantage long life time, the energy efficient, the different color chooses, brightness, the environmental protection and the PVC Rope flexibility easy curving, to install the modeling conveniently, the anti-impact not easy stave, convenient transportation, waterproof and anti-ultraviolet. Also it could be applied in the building decoration, the modeling decorative lighting and the manufacture advertisement and the sign.

Product Information

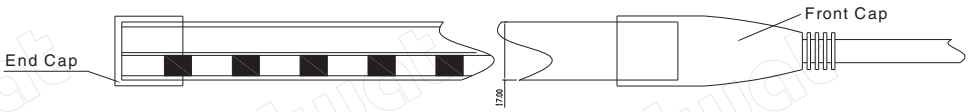
Part No.	Color	Luminous Flux	LED Qty/Meter	Operating Voltage	Cuttable Unit	Operating Power	Operating Current/ per meter	Packing Length	Max. Length
FU-BLF-NEON-BFXXAC	White	7000K-9000K	80	220VAC	100cm	4.8W	4.8W	XXM	200M
FU-BLF-NEON-BCXXAC	Warm White	3000K-3500K	80	220VAC	100cm	4.8W	4.8W	XXM	200M
FU-BLF-NEON-AZXXAC	Blue	465-475nm	80	220VAC	100cm	4.8W	4.8W	XXM	200M
FU-BLF-NEON-VEXXAC	Green	515-525nm	80	220VAC	100cm	4.8W	4.8W	XXM	200M
FU-BLF-NEON-ROXXAC	Red	620-630nm	80	220VAC	100cm	4.8W	4.8W	XXM	200M
FU-BLF-NEON-ABXXAC	Yellow	585-595nm	80	220VAC	100cm	4.8W	4.8W	XXM	200M

(XX: 10M - 20M - 50M)

1. Tolerance of measurement of luminous intensity is ±10%
2. The dominant wavelength d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
3. Specifications are subject to change without notice.
4. 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



Tolerance ±5 %
All unit in mm



The dimensions are not in scale

Input Voltage: 220V AC - Supplied in 10 mts / 20mts / 50mts / reel

CAUTIONS

Exploitation conditions

1. In order to guarantee that the LED life and the use environment, cannot make any force when the product lighting use to pull the power cables, forbids to collide, in order to avoid damages LED.
2. For can better lighting effect of the product, each 50 meter long strip must connect the main power source.
3. Must guarantee that each power source (GND) must connect.
4. Should not be curving in the diameter 60mm following radian, please do not rebate, in order to avoid damage lamp bead or break.

Storage

1. The Flexible SMD Strip should be stored at stored at 30℃ or less and 70%RH or less after being shipped and the storage life limits are 3 months.
2. If the Flexible SMD Strip is stored more then 3 months, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
3. Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

Static Electricity

1. Static electricity or surge voltage damages the Neon Rope.
2. It is recommended that a wristband or an anti-electrostatic glove be used when handling the Neon Rope.
3. All devices, equipment and machinery must be properly grounded.
4. It is recommended that measures be taken against surge voltage to the equipment that mounts the Neon Rope.

Heat Generation

1. Thermal design of the end product was most importance. Please consider the heat generation of the Flexible SMD Strip when making the system design.
2. The thermal resistance of the circuit board and density of Neon Rope placement on the board, as well as other components was the important factor affecting the coefficient of temperature increase per input electric power.
3. It must be avoid intense heat generation and operate within the maximum ratings given in the specification.
4. The operating current should be decided after considering the ambient maximum temperature of Neon Rope.

Others

1. Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the Neon Rope with matrix drive.
2. The Neon Rope described in this brochure is intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult Wah Wang's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the Neon Rope may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
3. User shall not reverse engineer by disassembling or analysis of the Neon Rope without having prior written consent from Wah Wang. When defective Neon Rope is found, the User shall inform Wah Wang directly before disassembling or analysis.

Warning

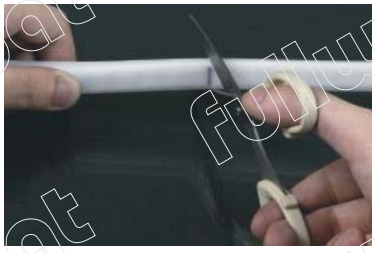
Please note the careful operation, in the power source connection's situation, will touch the alternating current supply end possibly to cause your safety.
In the actual application, the power source should retain 20% remainders, guaranteed that the sufficiency the voltage lightens LED.
Installs as far as possible the product in the appropriate environment.
Pays attention to the power cable in the installment process positive and negative extremely, please do not wrong, power source and product voltage to be whether correct, in order to avoid creates the product the damage.

Installation Cautions:

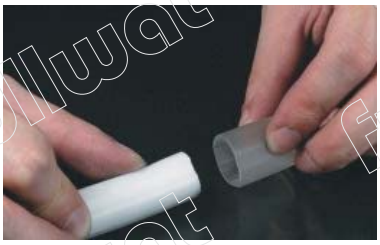
1. Before the use, please the product strict comparison technical parameter, work according to the parameter list correspondences voltage parameter ±10% voltage range.
2. AC100~AC120V or the AC220~240V Neon Rope belt refuses in the water to use, by against creates the leakage wound.
3. The Neon Rope must was cut the cutting mark place. (The best cutting is power on the Neon Rope, examined that marks whetherin two LED, to off the power. Levels the Neon Rope with the nipper that could avoid the LED and the internal electric wire), the waterproof of cutting and re-connecting place quality must solve by customer, if the Neon Rope defect or burn, Wah Wang is not responsible to service and the replacement.
4. Customer must cut out the extending of the Neon tube after cutting by nipper, it could avoid short circuit after glued the end and front cap. Please not power on when installation or assembling the accessories. Customer must sure the connecting is well before power on. The connectionof Neon Rope should with the voltage to be consistent, when connects two rope bodies, certainly must maintain the polarity is consistent. Only the specification is the same, the voltage same two sections of Neon Rope can serially connect mutually, the series connection total length cannot surpass the biggest permission use length.
5. The Neon Rope couldn't be distorted continuous, perseverant bended would easily defect the internal wire. The neon tube in the outdoors or indoors use should complete the safety precaution measure, it could avoid reduced fire, electric shock and personal injuries. When install the power cable must have the electric circuit protector, if the power point. have the fuse, perhaps uses leaks the switch.
6. When install fixes the plastic holding slot by screw the wall surface, then insert the Neon Rope into the slot, pays attention to thelight emitting area must face on. The front and end cap must use the dense silicogel to seal the waterproofing. Please do not wrap up with any object, cover neon tube-surface.
7. If the Neon Rope flash and running water, pleaseuse Wah Wang LED controller.

Installation

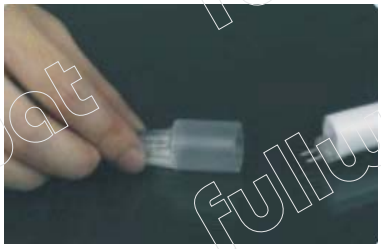
1.) Cut the LED NEON ROPE on the cutting mark only.



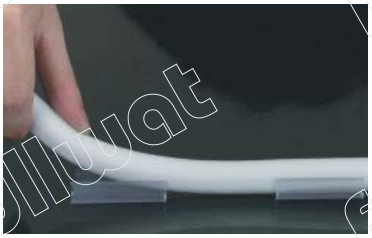
2.) Connect the front cap (FU-BLF-NEON-ENDCAP)



3.) Connect the end cap (FU-BLF-NEON-FRONTCAP)



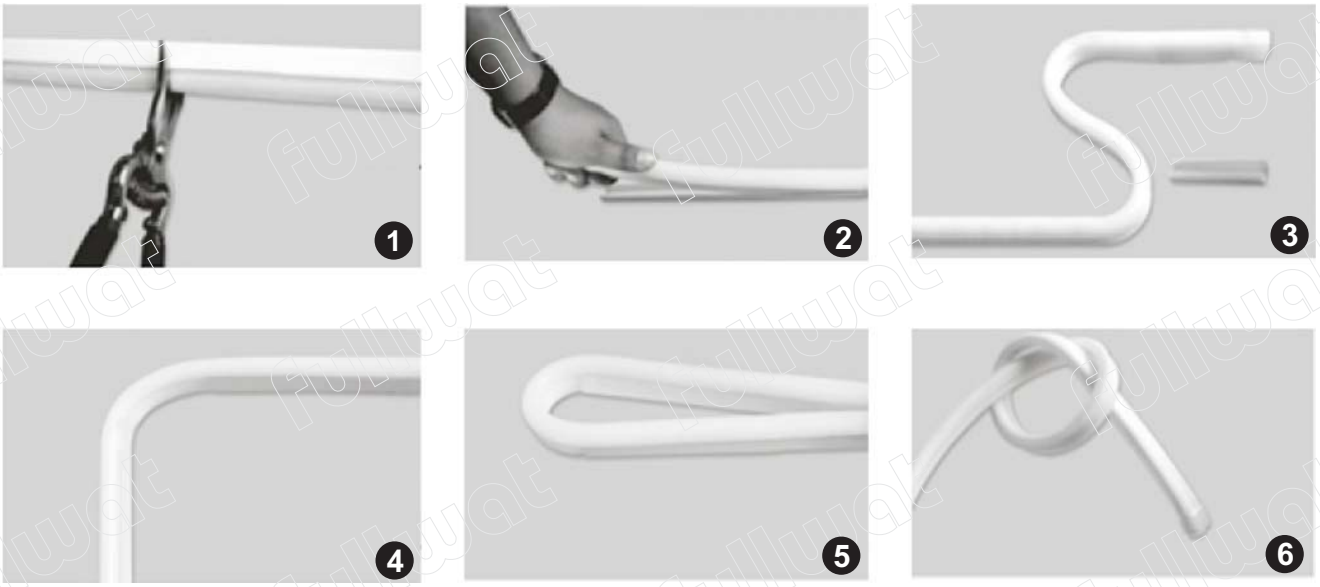
4.) Linear Installation (FU-BLF-NEON-TUBE)

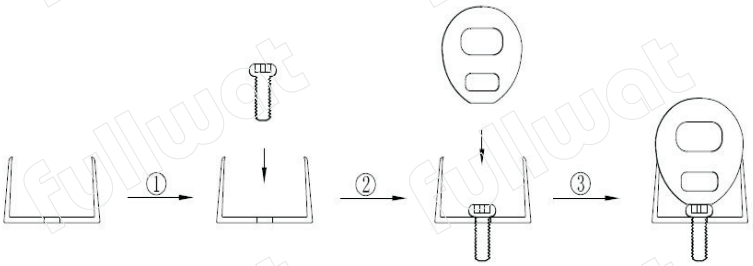


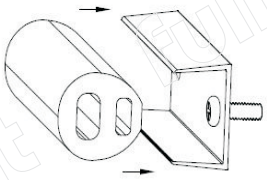
Installation Method:

The Top LED Neon Rope could soft bending to change different for form. Also it is easier with different material surface to installation. Suitable for different application (Included: decorative, wall etc.) You could design different form for your project and request.

Photo 1.The LED Neon Rope must marking on the Rope and use special a scissors to cutting.
Photo 2. Fixed for linear, on the installation must use plug holding slot (FU-BLF-NEON-TUBE) to fixed Rope surface.
Photo 3. Fixed for curve, on the installation must use plug holding slot (FU-BLF-NEON-TUBE) to fixed Rope surface.
Photo 4. Fixed for 90 degree, on the installation must use plug holding slot (FU-BLF-NEON-TUBE) to fixed Rope surface.
Photo 5. Fixed for 180 degree, on the installation must use plug holding slot (FU-BLF-NEON-TUBE) to fixed Rope surface.
Photo 6. Fixed for 360 degree install.







Installation drawing